

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P959889

Luminaire Tested: **NAV-SB1B-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-750-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4667.9 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



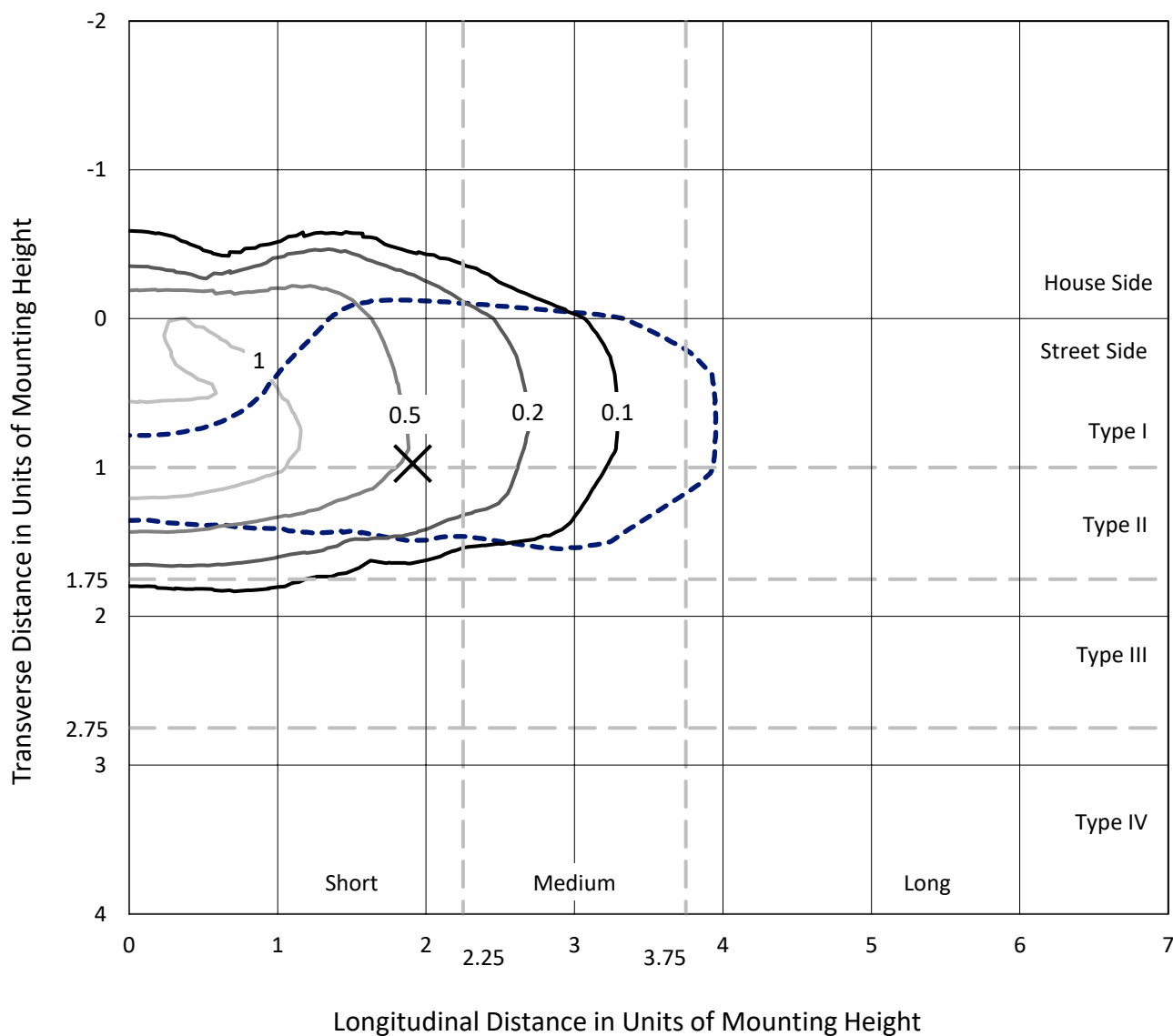
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

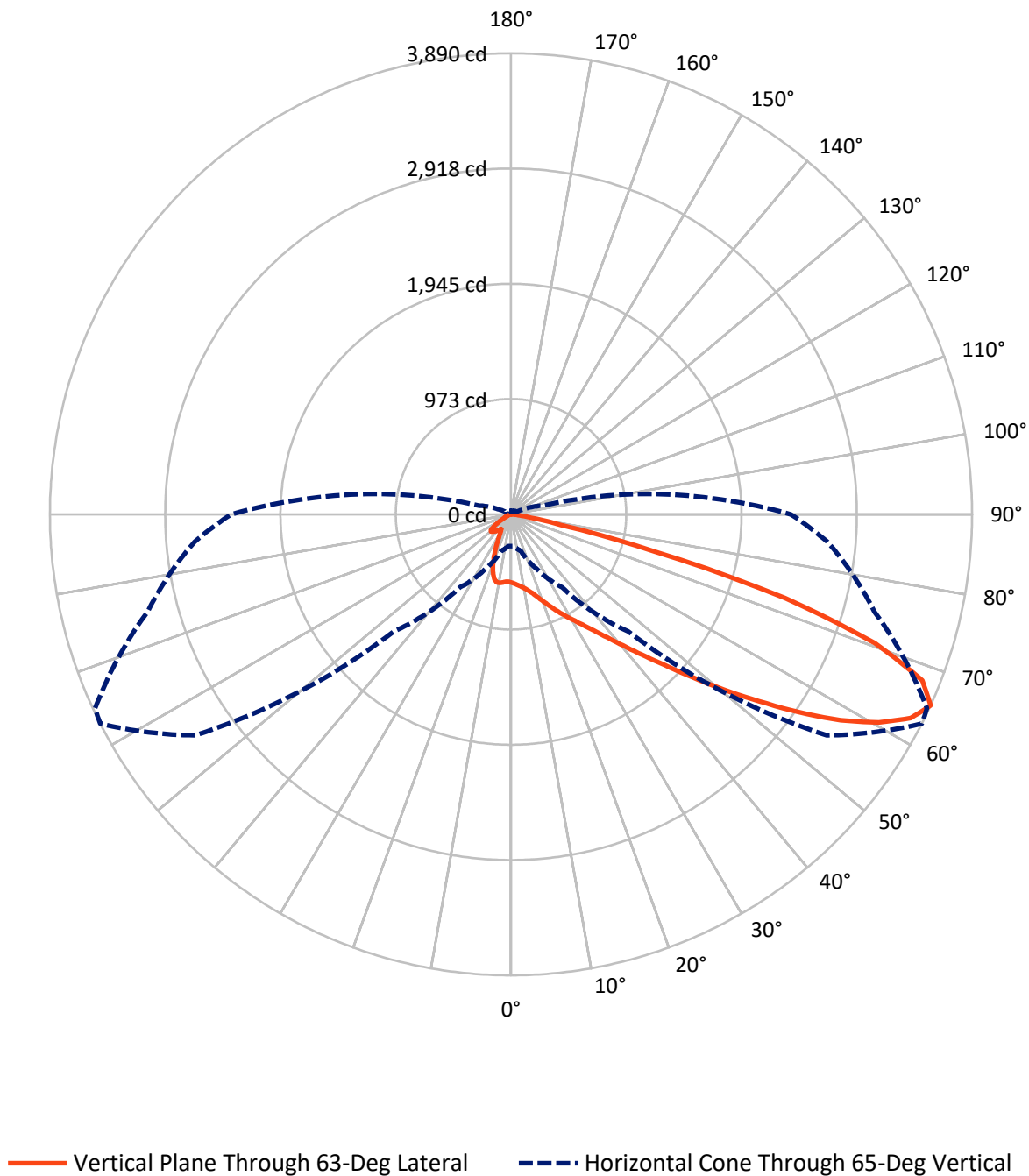


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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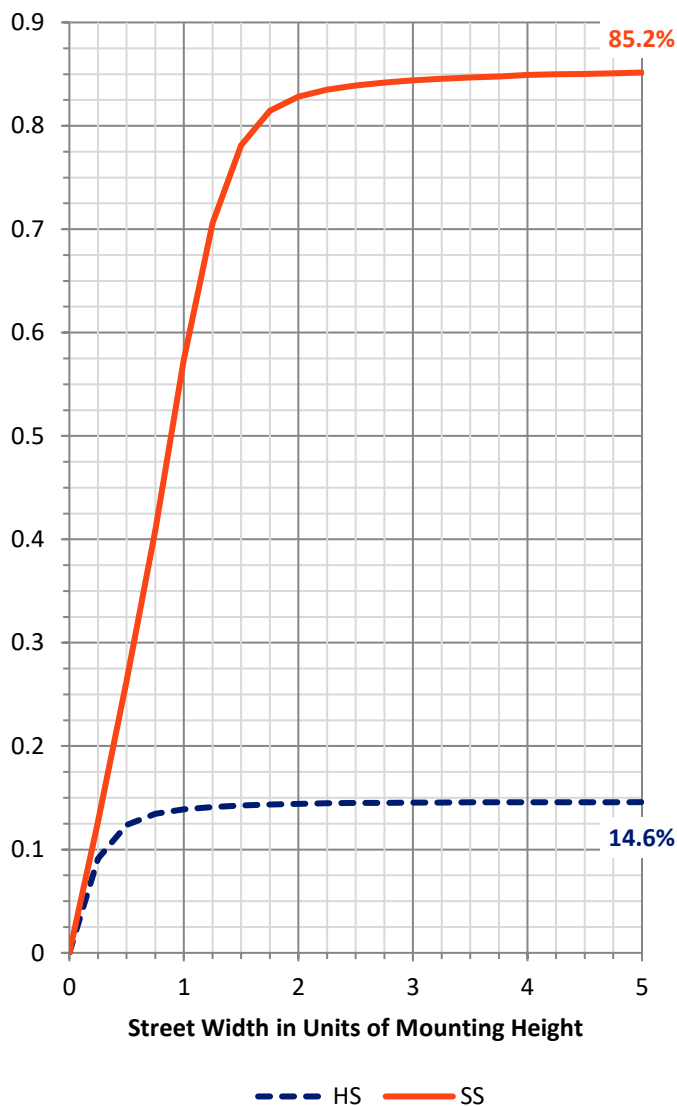
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	686.1	0.0	686.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3981.7	0.0	3981.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	4667.9	0.0	4667.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.2
10°-20°	150.6	3.2
20°-30°	262.2	5.6
30°-40°	472.7	10.1
40°-50°	937.4	20.1
50°-60°	1277.0	27.4
60°-70°	1019.3	21.8
70°-80°	461.2	9.9
80°-90°	33.2	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4667.9	100.0
0°-180°	4667.9	100.0

Coefficient of Utilization



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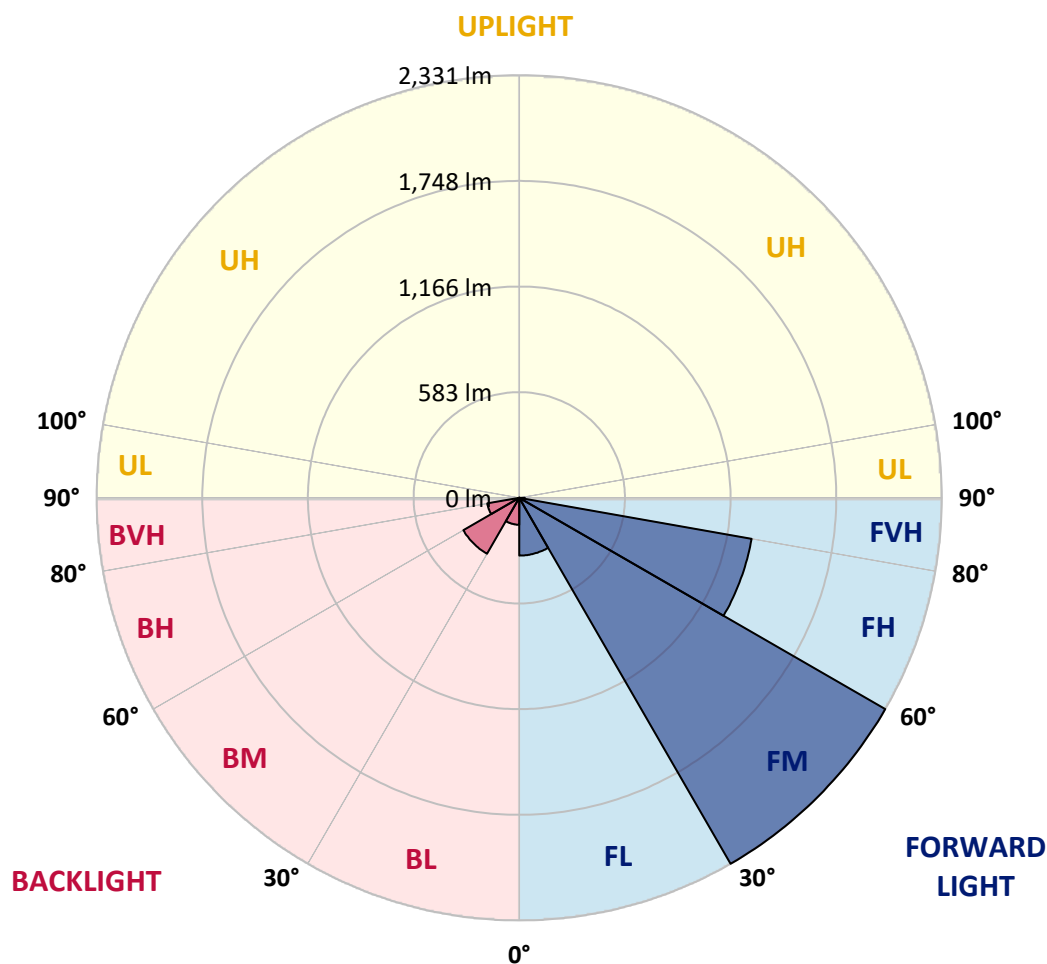
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	318.6	6.8			
FM	(30°-60°)	2331.0	49.9			
FH	(60°-80°)	1301.4	27.9			G1/1800
FVH	(80°-90°)	30.7	0.7			G1/100
BL	(0°-30°)	148.5	3.2	B1/500		
BM	(30°-60°)	356.1	7.6	B1/1000		
BH	(60°-80°)	179.1	3.8	B1/500		G1/500
BVH	(80°-90°)	2.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	589.6	587.9	590.2	589.3	588.7	587.3	586.7	586.1	584.8	583.8	579.9
5°	591.2	590.2	592.4	594.4	596.3	598.3	599.2	600.5	599.2	596.7	592.8
7.5°	577.7	577.1	581.9	587.6	596.3	603.7	611.7	616.2	616.5	615.6	611.4
10°	576.8	575.1	579.9	587.0	598.3	611.4	625.6	635.2	636.4	640.6	636.1
12.5°	591.8	590.2	597.0	604.6	616.2	630.1	647.4	660.9	662.8	668.6	665.3
15°	617.3	615.0	622.7	632.6	647.4	663.2	681.4	693.6	695.3	702.3	696.5
17.5°	646.8	644.5	653.5	664.1	680.2	701.6	722.8	736.4	738.3	742.7	732.2
20°	684.6	681.7	688.8	698.4	715.4	741.2	766.5	785.8	785.5	785.5	768.1
22.5°	728.7	724.2	730.2	737.9	754.0	785.2	818.9	841.6	841.6	832.7	804.1
25°	775.8	771.3	778.1	785.2	799.3	834.7	874.1	902.4	903.6	888.3	842.7
27.5°	835.0	829.1	834.2	842.7	851.0	886.9	933.9	966.6	967.2	943.5	879.2
30°	948.6	932.2	916.1	907.2	911.0	946.7	996.8	1033.1	1036.3	1003.5	919.0
32.5°	1156.7	1153.5	1097.0	1023.2	984.6	1010.9	1067.1	1110.8	1112.7	1070.6	970.8
35°	1480.1	1476.2	1385.4	1244.7	1119.1	1097.0	1152.5	1204.3	1202.9	1155.4	1037.9
37.5°	1866.1	1862.5	1742.7	1554.6	1351.3	1227.0	1262.7	1316.9	1325.0	1262.7	1124.6
40°	2195.9	2182.7	2106.9	1925.5	1659.6	1442.8	1419.4	1455.3	1463.7	1389.8	1234.7
42.5°	2445.6	2434.5	2395.9	2282.6	2032.8	1762.0	1604.0	1617.9	1627.2	1538.5	1361.3
45°	2575.1	2572.5	2587.9	2577.4	2413.0	2153.8	1868.0	1810.6	1814.0	1703.2	1504.8
47.5°	2593.5	2592.1	2662.4	2762.0	2739.8	2595.7	2206.8	2050.7	2038.2	1889.2	1660.9
50°	2485.5	2483.0	2617.8	2804.4	2958.3	2966.9	2591.5	2321.4	2293.8	2081.6	1823.7
52.5°	2140.9	2140.3	2361.9	2672.4	3034.9	3291.9	2971.7	2618.8	2572.5	2285.1	1995.8
55°	1647.4	1659.3	1913.3	2280.3	2894.9	3448.3	3313.1	2948.9	2877.9	2490.0	2154.4
57.5°	1167.0	1184.3	1435.4	1762.4	2460.8	3355.7	3543.9	3279.7	3203.2	2694.2	2315.4
60°	626.9	642.3	893.7	1283.8	1830.8	3010.8	3665.7	3566.8	3494.5	2888.2	2460.5
62.5°	373.5	378.6	482.7	828.8	1238.3	2300.2	3613.9	3785.4	3726.1	3051.0	2586.7
65°	268.1	269.1	321.4	506.1	751.7	1397.6	3251.4	3890.1	3871.8	3173.7	2680.2
67.5°	225.7	225.1	246.9	336.2	512.2	700.1	2492.0	3742.1	3819.8	3251.4	2733.1
70°	193.6	194.6	220.3	246.3	385.0	396.3	1238.9	3258.2	3423.8	3272.0	2729.9
72.5°	144.2	147.4	171.2	224.5	290.6	272.6	427.7	2415.8	2715.4	3082.8	2588.3
75°	101.8	103.4	120.4	188.8	216.8	198.4	218.3	1248.9	1632.9	2363.4	2118.5
77.5°	78.3	81.3	91.2	132.0	213.5	139.4	133.6	432.2	664.1	1427.7	1452.4
80°	42.4	47.6	65.8	95.3	150.0	98.6	66.1	172.1	225.1	667.6	560.1
82.5°	21.8	24.4	45.9	68.7	85.4	86.1	32.8	71.6	92.8	206.1	76.8
85°	8.7	10.6	30.9	37.9	44.0	42.4	14.8	28.9	33.4	57.2	23.5
87.5°	1.9	3.2	11.3	8.7	8.3	9.0	3.5	6.8	6.5	6.8	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2.5°	579.6	578.3	574.8	570.9	566.5	563.9	562.3	562.0	559.8	558.1	559.8
5°	589.3	587.9	581.3	573.2	564.6	557.8	551.3	545.6	537.2	535.7	534.9
7.5°	608.5	605.0	594.1	583.1	566.8	547.2	523.5	496.1	471.7	464.3	460.8
10°	632.3	627.5	613.7	594.4	558.1	504.8	447.3	394.0	351.7	339.8	335.3
12.5°	659.3	655.1	636.8	601.2	521.8	425.2	337.2	271.0	229.9	219.7	216.8
15°	691.4	685.3	659.9	590.9	456.9	323.1	231.5	192.4	177.6	175.7	173.7
17.5°	725.4	715.4	680.5	553.9	369.6	229.6	178.9	167.6	161.2	159.3	158.4
20°	756.6	743.7	692.7	498.0	276.1	178.9	160.2	152.8	147.1	144.8	143.5
22.5°	787.7	769.5	692.7	422.0	207.2	158.7	147.1	140.3	133.6	130.7	129.0
25°	820.2	795.7	680.5	337.2	166.7	145.4	134.6	127.2	121.4	117.9	116.5
27.5°	851.7	817.9	652.5	256.9	148.3	133.9	123.0	115.9	110.5	107.9	107.9
30°	881.5	839.8	613.4	195.0	136.4	122.7	112.4	106.3	100.9	98.3	98.6
32.5°	922.0	867.4	571.6	159.9	126.2	112.0	102.8	97.0	92.1	90.2	90.2
35°	978.2	908.2	535.7	157.0	117.6	103.4	94.1	88.7	83.8	82.2	82.2
37.5°	1057.8	974.0	516.7	176.3	110.5	95.7	87.0	81.3	76.8	75.4	75.1
40°	1156.1	1063.2	527.0	195.6	105.7	89.0	80.6	74.8	70.9	69.4	69.1
42.5°	1272.6	1173.4	583.8	210.3	102.4	83.1	74.5	68.1	65.5	64.9	64.9
45°	1406.5	1294.5	670.9	226.1	97.3	77.7	68.4	63.6	61.7	61.3	61.0
47.5°	1558.7	1427.4	771.6	245.7	92.1	72.6	63.6	60.4	58.7	58.1	58.1
50°	1709.7	1561.3	875.4	256.6	87.9	67.8	59.8	57.2	55.9	55.6	55.6
52.5°	1867.7	1699.0	959.2	246.3	84.5	63.9	56.5	54.6	53.3	53.0	53.0
55°	2018.3	1810.6	973.6	209.1	77.4	60.1	53.0	52.1	50.4	50.4	50.1
57.5°	2148.0	1866.4	871.6	153.5	70.3	54.2	49.4	48.5	47.3	46.8	46.5
60°	2267.2	1850.3	672.8	103.4	62.6	48.5	45.0	44.3	43.0	41.4	41.1
62.5°	2334.2	1779.7	460.2	67.4	54.9	42.4	39.8	39.5	36.6	33.4	32.8
65°	2359.7	1634.6	287.1	49.1	45.9	36.3	34.3	33.7	29.5	26.0	25.7
67.5°	2337.5	1395.6	144.8	38.8	36.3	30.1	28.3	28.3	25.4	22.1	21.8
70°	2248.8	1046.2	61.0	31.2	28.0	23.2	23.2	24.4	21.5	17.9	17.6
72.5°	2056.5	703.9	32.4	23.8	20.9	16.4	19.0	19.9	17.0	13.5	13.5
75°	1634.9	429.4	22.4	17.6	13.1	11.6	14.5	15.1	11.6	9.0	8.7
77.5°	1118.2	246.6	15.1	11.3	8.3	6.8	9.9	9.3	6.1	4.2	4.5
80°	491.0	102.8	8.7	5.1	3.2	2.6	3.5	2.6	1.9	1.3	1.3
82.5°	57.5	24.1	3.2	1.9	1.3	0.6	0.3	0.0	0.0	0.0	0.0
85°	11.9	2.9	1.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)